



**PATENT**

**Application # 10/042,179**

**Attorney Docket # 1014-202**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s) : Lin, Wei  
Application # : 10/042,179  
Confirmation # : 5966  
Filed : 01/11/2002  
Application Title : Enhanced Channel Access Mechanisms for an HPNA Network  
Art Unit # : 2155  
Latest Examiner : Wang, Liang Che A.

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Mail Stop Amendment  
Commissioner for Patents  
United States Patent and Trademark Office (USPTO)  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, 1.97, and 1.98, the attention of the USPTO is hereby directed to the attached listing of documents and/or the attached Declaration. For each document listed under "Foreign Patent Documents" or "Non Patent Literature Documents", one copy of that document is attached.

It is respectfully requested that the listed documents:

- (1) be expressly considered during the prosecution of this application;
- (2) be made of record therein; and
- (3) appear among the "References Cited" on any patent to issue therefrom.

Although the information submitted herewith might be "material" to the USPTO's consideration of this application, this submission is not intended to be an admission that such

information qualifies as “prior art” as to any claimed subject matter. The filing of this Information Disclosure Statement is not to be construed to mean that a search has been made.

The following marked paragraphs are applicable in this IDS:

**Timing of this IDS:**

- ☒ **A.** This IDS is being filed per 37 CFR 1.97(b)
- ☐ (1): within 3 months of the U.S. filing date other than a CPA under 1.53(d);
  - ☐ (2): within 3 months of the date of entry of the national stage as set forth in 1.491 in an international application;
  - ☐ (3): before the mailing date of a first Office Action on the merits; **OR**
  - ☒ (4): before the mailing date of a first Office Action associated with a request for continued examination (RCE) under 1.114;

**AND**, thus, no certification or fee is required.

- ☐ **B.** This IDS is being filed per 37 CFR 1.97(c), **AFTER** the period specified in 37 CFR 1.97(b) [section A of this IDS], and **BEFORE**:
- (a) the mailing date of any Final Action under 1.113,
  - (b) a Notice of Allowance under 1.311, **OR**
  - (c) an action that otherwise closes prosecution,

**AND**, per 37 CFR 1.97(e), I hereby certify that:

- ☐ (1) each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this IDS ; **OR**
- ☐ (2) no item of information in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge

after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than 3 months prior to the filing of this IDS;

**OR**, per 37 CFR 1.97(c), this IDS is accompanied by:

☐ (3) payment of the fee under 37 CFR 1.17(p) to ensure consideration of the disclosed information.

☐ **C.** This IDS is being filed per 37 CFR 1.97(d), **AFTER** the period specified in 37 CFR 1.97(c) [section **B** of this IDS], and **ON** or **BEFORE** the payment of the Issue Fee;

**AND**, per 37 CFR 1.97(e), I hereby certify that:

☐ (1) each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this IDS; **OR**

☐ (2) no item of information in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than 3 months prior to the filing of this IDS;

**AND**, per 37 CFR 1.97(d), this IDS is accompanied by:

☐ (3) payment of the fee under 37 CFR 1.17(p) to ensure consideration of the disclosed information.

**Legible Copies of Listed References:**

☒ **D.** In addition to the attached listing, accompanying this IDS is a legible copy of each listed:

- (1) foreign patent document;
- (2) pending unpublished U.S. application **OR** that portion of the application that caused it to be listed including any claims directed to that portion; **AND**
- (3) non-patent document or that portion thereof that caused it to be listed;

(4) other information or that portion that caused it to be listed.

- ☒ E. An English-language Abstract of each non-English language document is attached hereto.

**CONCLUSION**

The Office is hereby authorized to charge any additional fees or credit any overpayments under 37 C.F.R. 1.16 or 1.17 to Deposit Account No. 50-2504. The Examiner is invited to contact the undersigned at 434-972-9988 to discuss any matter regarding this application.

Respectfully submitted,

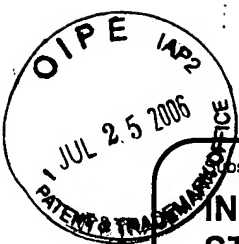
Michael Haynes PLC



Michael N. Haynes  
Registration No. 40,014

Date: 25 July 2006

1341 Huntersfield Close  
Keswick, VA 22947  
Telephone: 434-972-9988  
Facsimile: 815-550-8850



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Institute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

**PUBLISHED U.S. PATENT DOCUMENTS**

Examiner Initials	Application or Patent Number	Name of Applicant or Patentee	Date of Publication
	2002/0015404	Fisher	7 February 2002
	2002/0061012	Thi	23 May 2002
	2002/0131441	Trachewsky	19 September 2002
	2004/0114619	Park	17 June 2004
	5,572,678	Homma	5 November 1996
	5,623,495	Eng	22 April 1997
	5,638,371	Raychaudhuri	10 June 1997
	5,717,688	Belanger	10 February 1998
	5,949,768	Citta	7 September 1999
	5,982,748	Yin	9 November 1999
	6,034,967	Citta	7 March 2000
	6,115,390	Chuah	5 September 2000
	6,119,214	Dirks	12 September 2000
	6,262,976	McNamara	17 July 2001
	6,317,438	Trebes	13 November 2001
	6,366,577	Donovan	2 April 2002
	6,377,548	Chuah	23 April 2002
	6,411,611	van der Tuijn	25 June 2002

1

Examiner  
SignatureDate  
Considered

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 2

**Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

**PUBLISHED U.S. PATENT DOCUMENTS**

Examiner Initials	Application or Patent Number	Name of Applicant or Patentee	Date of Publication
	6,452,915	Jorgensen	17 September 2002
	6,532,279	Goodman	11 March 2003
	6,538,989	Carter	25 March 2003
	6,563,793	Golden	13 May 2003
	6,563,816	Nodoushani	13 May 2003
	6,567,408	Li	20 May 2003
	6,567,416	Chuah	20 May 2003
	6,587,453	Romans	1 July 2003
	6,597,682	Kari	22 July 2003
	6,600,744	Carr	29 July 2003
	6,625,156	Shaio	23 September 2003
	6,628,629	Jorgensen	30 September 2003
	6,640,248	Jorgensen	28 October 2003
	6,674,765	Chuah	6 January 2004
	6,704,321	Kamiya	9 March 2004
	6,704,932	Matsunaga	9 March 2004
	6,728,365	Li	27 April 2004
	6,731,627	Gupta	4 May 2004

2

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 3

**Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

**PUBLISHED U.S. PATENT DOCUMENTS**

Examiner Initials	Application or Patent Number	Name of Applicant or Patentee	Date of Publication
	6,738,361	Immonen	18 May 2004
	6,741,576	Alimi	25 May 2004
	6,747,968	Seppala	8 June 2004
	6,754,176	Gubbi	22 June 2004
	6,765,872	Tazaki	20 July 2004
	6,778,549	Keller	17 August 2004
	6,778,646	Sun	17 August 2004
	6,785,252	Zimmerman	31 August 2004
	6,788,950	Raissinia	7 September 2004
	6,804,222	Lin	12 October 2004
	6,850,981	Ho	1 February 2005
	6,862,270	Ho	1 March 2005
	6,862,280	Bertagna	1 March 2005
	6,862,630	Garg	1 March 2005
	6,868,072	Lin	15 March 2005
	6,877,043	Mallory	5 April 2005
	6,882,634	Bagchi	19 April 2005
	6,888,844	Mallory	3 May 2005

3

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031  
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4 of 4

## **Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

## **PUBLISHED U.S. PATENT DOCUMENTS**

Examiner Initials	Application or Patent Number	Name of Applicant or Patentee	Date of Publication
	6,891,881	Trachewsky	10 May 2005
	6,898,204	Trachwesky	24 May 2005
	6,907,066	Nayler	14 June 2005
	6,909,725	Chow	21 June 2005
	6,925,089	Chow	2 August 2005
	6,928,057	Bullman	9 August 2005
	6,940,918	Nayler	6 September 2005
	6,947,438	Chang	20 September 2005
	6,947,480	Beale	20 September 2005
	6,950,397	Ho	27 September 2005
	6,954,800	Mallory	11 October 2005
	6,963,545	Ho	8 November 2005
	6,970,422	Ho	29 November 2005
	6,973,094	Holloway	6 December 2005
	6,975,655	Fischer	13 December 2005
	6,999,442	Ho	14 February 2006
	7,031,274	Sherman	18 April 2006

## **FOREIGN PATENT DOCUMENTS**

Examiner  
Signature

Date  
Considered

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 5 of 5

**Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

Examiner Initials	Application or Patent Number	Name of Applicant or Patentee	Date of Publication
	JP 02072736A	Kurokawa	13 March 1990

**NON-PATENT DOCUMENTS**

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	AMODEI, AURELIO et al., "Increasing the Throughput of the HomePNA MAC Protocol", IEEE, Proceedings of the 29th Annual IEEE International Conference on Local Computer Networks (LCN '04), 1 November 2004, 8 page(s)
	Braden, R., "Resource Reservation Protocol (RSVP)", Internet Engineering Task Force, 1 September 1997, 1-112 page(s), Vol. RFC 2205, www.ietf.org
	Cali, "Capacity Analysis and Protocol Enhancement", IEEE 802.11, 8 page(s), IEEE, Italy
	DAVIES, NIGEL and RAVERDY, PIERRE-GUILLAUME, "Position Paper: The Role of Platforms and Operating Systems in Supporting Home Networks", Proceedings of the 9th Workshop on ACM SIGOPS European Workshop: Beyond the PC: New Challenges for the OS, 1 September 2000, 6 page(s), ACM Press
	Deng, Jiunn, "A Priority Scheme for IEEE 802.11 DCF Access Method", IEICE Trans. Commun., 1 January 1999, 7 page(s), Vol. E82-B/1
	Ho, Jin-Meng, "Centralized Contention and Reservation Request for QOS-Driven Wireless LANS", U.S. Patent Application Number 09/617,439, 14 July 2000, 77 page(s), US
	Ho, Jin-Meng, "Enhanced Channel Access Mechanisms for QOS-Driven Wireless LANS", U.S. Patent Application Number 09/616,885, 14 July 2000, 76 page(s), US
	Ho, Jin-Meng, "Multipoll for QOS-Driven Wireless LANS", U.S. Patent Application Number 09/616,884, 14 July 2000, 72 page(s), US
	Ho, Jin-Meng, "RSVP/SBM Based Up-Stream Session Setup, Modification, and Teardown for QOS-Driven Wireless LANS", U.S. Patent Application Number 09/616,878, 14 July 2000, 82 page(s), US
	Ho, Jin-Meng, "Virtual Streams for QOS-Driven Wireless LANS", U.S. Patent Application Number 09/617,083, 14 July 2000, 69 page(s), US

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031  
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 6 of 6

## **Complete if Known**

Application Number	10/042,179
Filing Date	01/11/2002
First Named Inventor	Lin, Wei
Group Art Unit	2155
Examiner Name	Wang, Liang Che A.
Attorney Docket Number	2000-0672C (1014-202)

	U.S. Patent Application number 10/042,142, Filed 11 January 2002, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 75 page(s)
	U.S. Patent Application number 10/042,143, Filed 11 January 2002, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 52 page(s)
	U.S. Patent Application number 10/042,165, Filed 11 January 2002, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 51 page(s)
	U.S. Patent Application number 10/042,166, Filed 11 January 2002, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 66 page(s)
	U.S. Patent Application number 11/256,598, Filed 21 October 2005, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 53 page(s)
	U.S. Patent Application number 11/398,297, Filed 5 April 2006, Lin, "Enhanced Channel Access Mechanisms for an HPNA Network", 53 page(s)
	Yavatkar et al., "SBM: A Protocol for RSVP-based Admission Control over IEEE 802-style networks", Internet Engineering Task Force, 1 May 2000, 60 page(s), Vol. RFC 2814, Network Working Group,
	Zhijun, Gong, "QoS Guaranteed Wireless Lan", ICCT '98, 22 October 1998, 5 page(s), International Conference on Communication Technology, China

Examiner  
 Signature

Date  
 Considered

6

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.